AMENDMENTS TO THE CLAIMS

1. (Currently amended) A solid oxide fuel cell comprising a solid oxide electrolyte

layer, a cathode layer on a cathode side of the electrolyte layer and an anode layer on an anode

side of the electrolyte layer, and wherein a hydrocarbon reforming layer is also disposed on the

anode side of the electrolyte layer, wherein said hydrocarbon reforming layer: (a) has having a

composition different from that of the anode layer; (b) is a nickel-zirconia cermet; and (c)

comprises comprising a catalyst for promoting a hydrocarbon steam reforming reaction and a

component, or a precursor of such a component, for alleviating carbon deposition on the

hydrocarbon reforming layer.

2. (Original) A fuel cell according to claim 1, wherein the hydrocarbon reforming

layer overlies the anode layer so as to at least partially cover the anode layer.

3. (Withdrawn) A fuel cell according to claim 1, wherein the hydrocarbon

reforming layer is provided as a separate layer on the anode side of the electrolyte, in one or

more parts.

4. (Original) A fuel cell according to claim 1 or 2, wherein the hydrocarbon

reforming layer entirely covers the anode layer.

5. (Withdrawn) A fuel cell according to claim 1, wherein the hydrocarbon

reforming layer is provided upstream of the anode layer, relative to the fuel stream flow to the

fuel cell, so as to ensure that substantially all of the hydrocarbons in the fuel stream are steam

reformed before the fuel stream contacts the anode layer.

6. (Original) A fuel cell according to any one of claims 1 to 3, wherein the

component for alleviating carbon deposition is selected from cerium oxide, prascodymium oxide.

lanthanum oxide, samarium oxide, tungsten oxide, molybdenum oxide, alkaline earth based

materials oxide, and alkali based materials, and precursors thereof.

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7. (Currently Amended) A fuel cell according to any one of claims 1 to 3, wherein

the proportion of the component for alleviating carbon deposition in the hydrocarbon reforming

layer is in the range of 1-60 wt.%.

8. (Original) A fuel cell according to any one of claims 1 to 3, wherein the

hydrocarbon reforming layer contains nickel in an amount of at least 30 vol.% (approximately 40

wt.%).

Claim 9 (Cancelled)

10. (Original) A fuel cell according to any one of claims 1 to 3, wherein the mean

thickness of the hydrocarbon reforming layer is from 20 to 100 μm for an electrolyte or cathode

layer-supported fuel cell, and from 300 to 500 µm for an anode layer-supported fuel cell.

11. (Original) A fuel cell according to any one of claims 1 to 3, wherein the

hydrocarbon reforming layer has a porosity of from 20 to 70 %.

12. (Original) A fuel cell according to any one of claims 1 to 3, wherein the anode

layer has a porosity of from 7 to 50%.

13. (Original) A fuel cell according to claim 1, wherein the hydrocarbon reforming

layer overlies the anode layer and a porous conductive layer is provided over the hydrocarbon

reforming layer.

14. (Withdrawn) A fuel cell according to claim 1, wherein the hydrocarbon

reforming layer is separate to the anode layer and a porous conductive layer is provided over the

anode layer.

15. (Withdrawn and Currently Amended) A method of manufacturing a solid oxide

fuel cell, which method comprises providing a solid oxide fuel cell precursor comprising a solid

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oxide electrolyte layer, a cathode layer on a cathode side of the electrolyte layer and an anode on the anode side of the electrolyte layer, and disposing a hydrocarbon reforming layer on the anode side of the electrolyte layer, wherein said hydrocarbon reforming layer: (a) has having a composition different from that of the anode layer; (b) is a nickel-zirconia cermet; and (c) comprises comprising a catalyst for promoting a hydrocarbon steam reforming reaction and a component, or a precursor of such a component, for alleviating carbon deposition on the hydrocarbon reforming layer.

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